

Young Chul Jun

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,960
citations

218677

26
h-index

182427

51
g-index

64
all docs

64
docs citations

64
times ranked

8890
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonics for extreme light concentration and manipulation. <i>Nature Materials</i> , 2010, 9, 193-204.	27.5	3,773
2	Optical magnetic mirrors without metals. <i>Optica</i> , 2014, 1, 250.	9.3	188
3	Epsilon-Near-Zero Strong Coupling in Metamaterial-Semiconductor Hybrid Structures. <i>Nano Letters</i> , 2013, 13, 5391-5396.	9.1	178
4	Plasmonic beaming and active control over fluorescent emission. <i>Nature Communications</i> , 2011, 2, 283.	12.8	176
5	Nonresonant enhancement of spontaneous emission in metal-dielectric-metal plasmon waveguide structures. <i>Physical Review B</i> , 2008, 78, .	3.2	154
6	Broadband Epsilon-Near-Zero Perfect Absorption in the Near-Infrared. <i>Scientific Reports</i> , 2015, 5, 12788.	3.3	125
7	Atomic Scale Study on Growth and Heteroepitaxy of ZnO Monolayer on Graphene. <i>Nano Letters</i> , 2017, 17, 120-127.	9.1	120
8	Directional perfect absorption using deep subwavelength low-permittivity films. <i>Physical Review B</i> , 2014, 90, .	3.2	111
9	High Excitation Transfer Efficiency from Energy Relay Dyes in Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2010, 10, 3077-3083.	9.1	97
10	Broadband enhancement of light emission in silicon slot waveguides. <i>Optics Express</i> , 2009, 17, 7479.	3.4	83
11	Electrifying plasmonics on silicon. <i>Nature Materials</i> , 2010, 9, 3-4.	27.5	73
12	Multicolor 4D printing of shape-memory polymers for light-induced selective heating and remote actuation. <i>Scientific Reports</i> , 2020, 10, 6258.	3.3	73
13	Active tuning of mid-infrared metamaterials by electrical control of carrier densities. <i>Optics Express</i> , 2012, 20, 1903.	3.4	64
14	Multistable Thermal Actuators Via Multimaterial 4D Printing. <i>Advanced Materials Technologies</i> , 2019, 4, 1800495.	5.8	54
15	General Strategy for Broadband Coherent Perfect Absorption and Multi-wavelength All-optical Switching Based on Epsilon-Near-Zero Multilayer Films. <i>Scientific Reports</i> , 2016, 6, 22941.	3.3	51
16	Strong Modification of Quantum Dot Spontaneous Emission via Gap Plasmon Coupling in Metal Nanoslits. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7269-7273.	3.1	49
17	Admittance matching analysis of perfect absorption in unpatterned thin films. <i>Optics Communications</i> , 2014, 332, 206-213.	2.1	48
18	3D and 4D printing for optics and metaphotonics. <i>Nanophotonics</i> , 2020, 9, 1139-1160.	6.0	48

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19	3D printing of twisting and rotational bistable structures with tuning elements. <i>Scientific Reports</i> , 2019, 9, 324.	3.3	36
20	Strong Nonlinear Optical Response in the Visible Spectral Range with Epsilon-Near-Zero Organic Thin Films. <i>Advanced Optical Materials</i> , 2018, 6, 1701400.	7.3	34
21	Doping-tunable thermal emission from plasmon polaritons in semiconductor epsilon-near-zero thin films. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	31
22	Plasmon-enhanced emission from optically-doped MOS light sources. <i>Optics Express</i> , 2009, 17, 185.	3.4	29
23	Circularly Polarized Emission from Organic-Inorganic Hybrid Perovskites via Chiral Fano Resonances. <i>ACS Nano</i> , 2021, 15, 13781-13793.	14.6	28
24	Power flow from a dipole emitter near an optical antenna. <i>Optics Express</i> , 2011, 19, 19084.	3.4	27
25	Electrically tunable infrared metamaterials based on depletion-type semiconductor devices. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 114013.	2.2	26
26	Topological Control of 2D Perovskite Emission in the Strong Coupling Regime. <i>Nano Letters</i> , 2021, 21, 10076-10085.	9.1	22
27	Dispersion Control of Excitonic Thin Films for Tailored Superabsorption in the Visible Region. <i>ACS Photonics</i> , 2017, 4, 1138-1145.	6.6	19
28	Active switching and tuning of sharp Fano resonances in the mid-infrared spectral region. <i>Optics Express</i> , 2016, 24, 25684.	3.4	18
29	Fourier-plane investigation of plasmonic bound states in the continuum and molecular emission coupling. <i>Nanophotonics</i> , 2020, 9, 4565-4577.	6.0	18
30	Dichroic Sb ₂ O ₃ /Ag/Sb ₂ O ₃ Electrodes for Colorful Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000201.	5.8	15
31	Theoretical investigations on microwave Fano resonances in 3D-printable hollow dielectric resonators. <i>Scientific Reports</i> , 2017, 7, 16186.	3.3	14
32	3D and 4D Printing of Multistable Structures. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7254.	2.5	14
33	Polarization-dependent photocurrent enhancement in metamaterial-coupled quantum dots-in-a-well infrared detectors. <i>Optics Communications</i> , 2014, 312, 31-34.	2.1	13
34	Angle-dependent optical perfect absorption and enhanced photoluminescence in excitonic thin films. <i>Optics Express</i> , 2017, 25, 28619.	3.4	13
35	Suppression of halide migration and immobile ionic surface passivation for blue perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2060-2066.	5.5	12
36	Light activation of 3D-printed structures: from millimeter to sub-micrometer scale. <i>Nanophotonics</i> , 2022, 11, 461-486.	6.0	12

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37	Electron-Beam-Induced Nanopatterning of Aggregate Thin Films for Excitonic and Photonic Response Control. <i>Advanced Optical Materials</i> , 2018, 6, 1800583.	7.3	6
38	Tunable Resonance and Phase Vortices in Kirigami Fano-Resonant Metamaterials. <i>Advanced Materials Technologies</i> , 2020, 5, 2000234.	5.8	5
39	Enhancement of sub-bandgap light absorption in perovskite semiconductor films via critical coupling. <i>Optics Express</i> , 2019, 27, 25293.	3.4	5
40	Nanofocusing of light using three-dimensional plasmonic mode conversion. <i>Optics Express</i> , 2013, 21, 27816.	3.4	4
41	Surface bound waves and optical interactions in excitonic thin films. <i>Optical Materials Express</i> , 2018, 8, 2687.	3.0	4
42	Sharp Fano Resonance and Spectral Collapse in Stimuli-Responsive Photonic Structures. <i>Advanced Optical Materials</i> , 2019, 7, 1801206.	7.3	4
43	Femtosecond laser irradiation of molecular excitonic films for nanophotonic response control and large-area patterning. <i>Optics Express</i> , 2019, 27, 18044.	3.4	4
44	Geometry-Independent Excitation of Dark Modes Using Dipole Moment Transitions. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 6172-6182.	5.1	4
45	Resonant wavelength tuning of localized plasmons in silver-aluminum nanoparticles. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2098-2101.	0.7	3
46	Soft luminescent solar concentrator film with organic dye and rubbery matrix. <i>Journal of Polymer Science</i> , 2021, 59, 59-69.	3.8	3
47	High sensitivity bolometers based on metal nanoantenna dimers with a nanogap filled with vanadium dioxide. <i>Scientific Reports</i> , 2021, 11, 15863.	3.3	3
48	Simulation and analysis of grating-integrated quantum dot infrared detectors for spectral response control and performance enhancement. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	2
49	NANOPLASMONICS: COMPONENTS, DEVICES, AND CIRCUITS. , 0, , 405-438.		2
50	Modification of the spontaneous emission rate of nitrogen-vacancy centers in diamond by coupling to plasmons. , 2011, , .		1
51	Optical Manipulation with Plasmonic Beam Shaping Antenna Structures. <i>Advances in OptoElectronics</i> , 2012, 2012, 1-6.	0.6	1
52	Tunable and broadband perfect absorption in epsilon-near-zero indium tin oxide thin films at near infrared wavelengths. , 2015, , .		1
53	Design of epsilon-near-zero coherent perfect absorption with indium tin oxide thin films using admittance matching method. , 2015, , .		1
54	Demonstration of Dielectric Optical Magnetic Mirrors Using Phase-locked Infrared Time-domain Spectroscopy. , 2013, , .		1

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55	Epsilon-Near-Zero Subwavelength Optoelectronics: Electrically Tunable ENZ Strong Coupling. , 2013, , .		1
56	Multipole resonance and Vernier effect in compact and flexible plasmonic structures. Scientific Reports, 2021, 11, 22817.	3.3	1
57	Polarization-dependent photocurrent enhancement in metamaterial-integrated quantum dot infrared detectors. , 2012, , .		0
58	Optical Magnetic Mirrors using All Dielectric Metasurfaces. , 2014, , .		0
59	Electrically-Controlled Thermal Infrared Metamaterial Devices. , 2012, , .		0
60	Transformation Optics and Invisibility Cloaking. New Physics: Sae Mulli, 2014, 64, 1045-1053.	0.1	0
61	Broadband Coherent Perfect Absorption Device Based on Epsilon-Near-Zero Indium Tin Oxide Thin Films in the Near Infrared. , 2016, , .		0
62	Tunable Epsilon-Near-Zero ITO Thin Films and Broadband Perfect Absorption in the Near-Infrared. , 2016, , .		0
63	Broadband epsilon-“near”zero and epsilon-“near”pole 1D nanograting metamaterials in near-“infrared regimes. , 2018, , .		0